

# Sartoclean® CA

## Particle & Bioburden Reduction Filter Cartridges



### Description

Sartoclean® CA filter cartridges are the ideal choice for a broad range of prefiltration applications in the biopharmaceutical industry from particle removal to bioburden reduction. They offer a defined retention performance by size exclusion. The use of Sartoclean® CA prefilters avoids early blockage of downstream sterilizing grade membrane filters and contributes significantly to an economical design of your filtration system.

### Applications

Featuring ultra low binding cellulose acetate membranes, Sartoclean® CA filters are typically used for membrane prefiltration of:

- Plasma Fractions
- Vaccines
- MAB
- Diagnostics
- Purified Protein Solutions
- Biological Fluids
- Solutions containing Preservatives

# High Product Yield

Throughout the years the cellulose acetate membranes of the Sartoclean® CA filters have proven to be the membrane material with lowest unspecific binding capabilities, assuring highest protein yields and rapid preservative recovery enhancing your process efficiency.

# Performance

Sartoclean® CA filters with heterogeneous double layer construction (3.0|0.8 µm & 0.8|0.65 µm) offer highest total throughput performance due to the “build-in prefiltration” to avoid filter change during filtration and assure economical system design. Single layer Sartoclean® CA filters (0.45 µm & 0.2 µm) offer highest flow rates for microbe retentive filtration.

# Mechanical Strength

The reinforcement of the membrane results in increased mechanical and thermal resistance, especially of interest in applications with high differential pressure and with repeated steam sterilization of the filters.

# Flexibility

Sartoclean® CA filters are available as standard filter cartridges, mini cartridges, Midicaps® and Maxicaps® offering broadest choice for scale-up and easiest adoption to varying process volumes.

# Documentation

Sartoclean® CA cartridges are designed, developed and manufactured in accordance with a ISO 9001 certified Quality Management System. A Validation Guide is available for compliance with regulatory requirements.

# Specifications

Materials	
Prefilter Membrane	Cellulose Acetate
Endfilter Membrane	Cellulose Acetate
Support Fleece	Polypropylene
Core	Polypropylene
End Caps	Polypropylene
O-Ring	Silicone (optional EPDM or Fluoroelastomer)

Pore Size Combinations
3.0 + 0.8 µm
0.8 + 0.65 µm
0.45 µm
0.2 µm

# Available Sizes | Filtration Area Single Layer

Cartridges		
Size 1	10"	0.74 m²   8.0 ft²
Size 2	20"	1.5 m²   16.1 ft²
Size 3	30"	2.2 m²   23.7 ft²
Mini Cartridges		
Size 7		0.08 m²   0.9 ft²
Size 8		0.16 m²   1.7 ft²
Size 9		0.3 m²   3.2 ft²

# Available Sizes | Filtration Area Double Layer

Cartridges		
Size 1	10"	0.6 m²   6.5 ft²
Size 2	20"	1.2 m²   12.8 ft²
Size 3	30"	1.8 m²   19.3 ft²
Mini Cartridges		
Size 7		0.05 m²   0.5 ft²
Size 8		0.1 m²   1 ft²
Size 9		0.2 m²   2 ft²

### Available Adapters Cartridges

- 21: Double open end with flat gasket
- 25: 2 Flange bayonet adapter with 226 double o-ring
- 27: Bayonet adapter with 222 double o-ring
- 28: 3 Flange bayonet adapter with 222 double o-ring

### Available Adapters Mini Cartridges

- 15: Bayonet adapter with o-ring

### Operating Parameters

Max. Allowable Differential Pressure	5 bar   72.5 psi at 20°C 2 bar   29 psi at 80°C
Max. Allowable Back Pressure	2 bar   29 psi at 20°C

## Specifications

### Extractables

Sartoclean® CA cartridges meet or exceed the requirements for WFI quality standards set by the current USP.

### Regulatory Compliance

Non pyrogenic according to USP Bacterial Endotoxins

Pass USP Plastic Class VI Test

Non fiber releasing according to 21 CFR

## Sterilization

### In-Line Steam Sterilization

134 °C, 20 min. at max differential pressure of 0.5 bar | 7.25 psi

### Autoclaving

134°C, 2 bar | 29 psi, 30 min

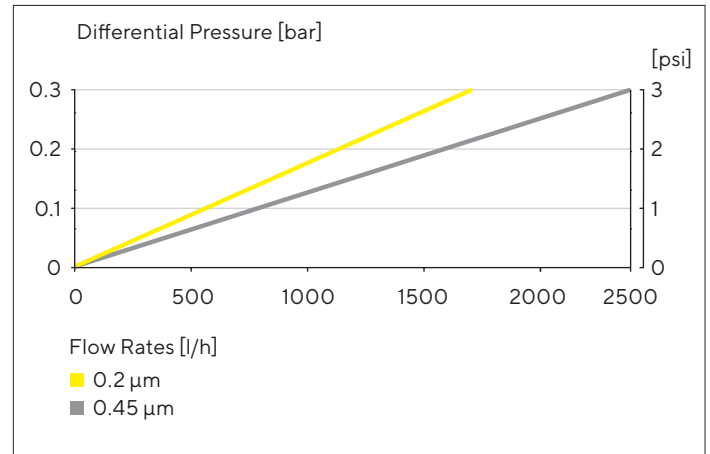
### Sterilization Cycles

In-Line Sterilization:	Min. 25
Autoclaving:	Min. 25

## Technical References

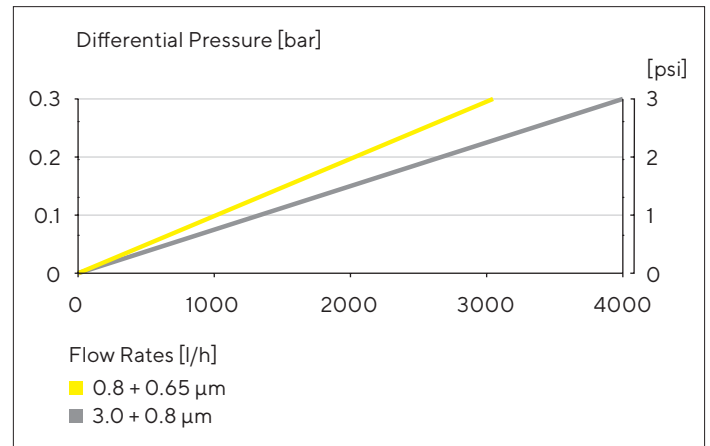
Validation Guide SPK5788-e

## Water Flow Rates for Sartoclean® CA 10" Cartridges



Standardized at 20°C

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Standardized at 20°C

## Order Information

Order Code	Pore Size [µm]	Pack Size [Pieces]
<b>Cartridges</b>		
562**07Ax	0.2	1
562**06Ax	0.45	1
562**05Gx	0.8 + 0.65	1
562**04Ex	3.0 + 0.8	1
<b>Mini Cartridges</b>		
5621507Ax-----B	0.2	5
5621506Ax-----B	0.45	5
5621505Gx-----B	0.8 + 0.65	5
5621504Ex-----B	3.0 + 0.8	5


\*\* Adapter Type  
x: Size

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